

### Abstract

The invention provides a process for producing a monoglyceride-containing composition by reacting glycerin with at least one kind of acyl-containing compound selected from fatty acid and glycerin ester, the reaction being conducted with a catalyst containing at least one metal selected from iron, cobalt and manganese in an amount of 0.1 to 60 ppm in terms of metal (weight ratio to the total weight of glycerin and the acyl-containing compound), as well as a process for producing a monoglyceride-containing composition by reacting glycerin with at least one kind of acyl-containing compound selected from fatty acid and glycerin ester, including a step of maintaining the amount of water at 500 to 5000 ppm in the reaction system after the degree of conversion in the reaction of glycerin with fatty acid reaches 90% or more based on the fatty acid, or during the ester exchange reaction of glycerin with glycerin ester.